

**PATENT**

**FRENCH PETROLEUM INSTITUTE**

**EUO-STRUCTURAL-TYPE ZEOLITE CONTAINING THE ALKYL  
QUINUCLIDINIUM STRUCTURING AGENT, PROCESS FOR PREPARATION  
AND USE AS CATALYST**

Loïc ROULEAU and Sylvie LACOMBE

**ABSTRACT**

An EUO-structural-type zeolite that comprises at least one element X that is selected from among silicon and germanium and at least one element T that is selected from among aluminum, iron, gallium, vanadium, zirconium, molybdenum, arsenic, antimony, chromium and manganese is described. It contains at least one alkyl quinuclidinium cation in its intracrystalline pores and has an N/X atomic ratio of more than 0.065, whereby N represents the nitrogen element. This invention also relates to a process for preparation of said zeolite and the use of the latter as an acidic solid in a process for conversion of hydrocarbon feedstocks.